

Pressure 13 Click



PID: MIKROE-4294

Pressure 13 Click is a compact add-on board that contains an integrated pressure sensor for manifold air pressure measurement applications. This board features the KP229E2701, a miniaturized analog manifold air pressure sensor based on a capacitive principle from Infineon. This sensor converts the pressure of 10 kPa to 300 kPa into an analog output signal, a voltage range of 0.40 V to 4.65 V. Also, the manifold pressure data can be used to compute diagnostics of leakages and malfunctions of the exhaust gas recirculation valve. The high accuracy and the high sensitivity of the KP229E2701 make this Click board™ a perfect choice for advanced automotive applications as well as in industrial and consumer applications.

Pressure 13 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Pressure
Applications	Can be used for advanced automotive applications as well as in industrial and consumer applications.
On-board modules	Pressure 13 Click is based on the KP229E2701, a miniaturized analog absolute pressure sensor based on a capacitive principle from Infineon.
Key Features	Low power consumption, high precision pressure sensing (± 2.5 kPa), ratiometric analog output, large temperature range, automotive qualified, and more.
Interface	Analog
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Pressure 13 click 2D and 3D files](#)

[KP229E2701 datasheet](#)

[Pressure 13 click example on Libstock](#)

[Pressure 13 click schematic](#)

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